

Biotinylated Human CD7 Protein, His-Avi Tag

产品信息

产品名称	产品编号	规格
Biotinylated Human CD7 Protein, His-Avi Tag	93141ES60	100 µg
	93141ES76	500 µg
	93141ES80	1 mg

产品描述

CD7, also known as Leu-9, is an approximately 40 kDa glycosylated and palmitoylated transmembrane protein in the immunoglobulin superfamily. Mature human CD7 consists of a 155 amino acid (aa) extracellular domain (ECD), a 21 aa transmembrane segment, and a 39 aa cytoplasmic domain. Within the ECD, human CD7 shares 43% and 41% aa sequence identity with mouse and rat CD7, respectively. CD7 is expressed on T cells, NK cells, myeloid progenitor cells, and CD19+ B progenitor cells. Among CD8+ T cells, the CD7-bright population preferentially contains naïve and memory cells, while more weak expressors are primarily effector cells. It also enhances integrin-mediated adhesion of these cells to Fibronectin, ICAM-1, and VCAM-1. CD7 additionally mediates the Galectin-1 induced apoptosis of T cells and facilitates the fusion of HIV-1 with target cells.

产品性质

Synonyms	CD7 molecule; CD7; LEU-9; Tp40; TP41; GP40
Uniprot No.	P09564
Source	Recombinant Biotinylated Human CD7 Protein is expressed from HEK293 Cells with His tag and Avi tag at the C-terminal. It contains Ala26-Pro180.
Molecular Weight	The protein has a predicted MW of 19.3 kDa. Due to glycosylation, the protein migrates to 34-48 kDa based on Tris-Bis PAGE result.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	> 95% as determined by SDS-PAGE and HPLC
Endotoxin	< 1.0 EU per 1µg of the protein by the LAL method.
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 5% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge tubes before opening. Reconstituting to a concentration more than 100µg/mL is recommended. Dissolve the lyophilized protein in distilled water.

运输与保存方法

The products are shipped with ice pack and can be stored at -20°C for 1 year.

2-7 days, 2 to 8 °C under sterile conditions after reconstitution.

3 -6 months, -20 to -80°C under sterile conditions after reconstitution.

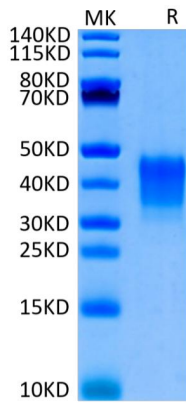
Recommend to aliquot the protein into smaller quantities for optimal storage. Please avoid freeze-thaw cycles.

注意事项

1. For your safety and health, please wear lab coats and disposable gloves for operation.
2. For research use only!

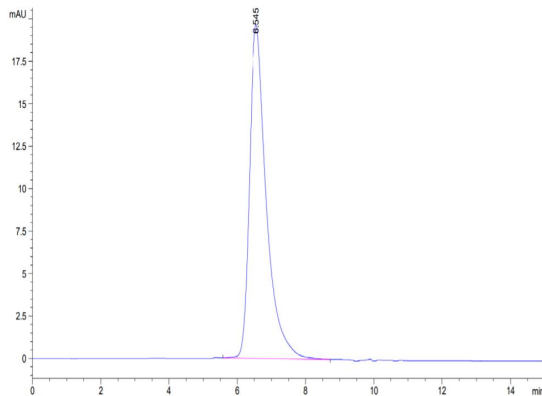
产品数据

Tris-Bis PAGE



Biotinylated Human CD7 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

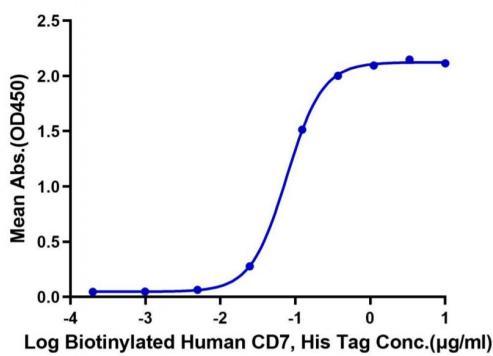
SEC-HPLC



The purity of Biotinylated Human CD7 is greater than 95% as determined by SEC-HPLC.

ELISA Data

Biotinylated Human CD7, His Tag ELISA
 0.05 μ g Anti-CD7 Antibody, hFc Tag Per Well



Immobilized Anti-CD7 Antibody, hFc Tag at 0.5 μ g/mL (100 μ l/well) on the plate. Dose response curve for Biotinylated Human CD7, His Tag with the EC₅₀ of 76.7ng/mL determined by ELISA.